**CV OF DR. SANJAY ROY**



1. Name and full correspondence address: DR. SANJAY ROY

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Department of Chemistry

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2. Email(s) and contact number(s): E-mail: [sanjayroyp@gmail.com](mailto:sanjayroyp@gmail.com);

3. Institution: School of Sciences, Netaji Subhas Open University, DD-26, Salt Lake, Sector-I, Kolkata 700064, Regional Centre Kalyani

4. Date of Birth: **07-01-1982**

5. Gender (M/F/T): Male

6. Category Gen/SC/ST/OBC: SC

7. Whether differently abled (Yes/No): No

8. Academic Qualification (Undergraduate Onwards):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Degree | Year | Subject | University/Institution | Division |
| 1 | MP | 1998 | ENG, BENG, MATH, PHYSCI, GEO,HIST | W.B.B.S.E | I |
| 2 | HS | 2000 | CHEM, PHYS, MATH, BIOL, BENG, ENG | W.B.B.H.S.E | I |
| 3 | B.SC. | 2003 | CHEM (HONS), PHYS, MATH | VISVA-BHARATI | I |
| 4 | M.SC. | 2005 | CHEMISTRY (INORGANIC SPL) | VISVA-BHARATI | I |
| 5 | Graduate Aptitude Test for Engineering | 2005 |  | Indian Institute of Science |  |
| 6 | NET | 2008 |  | Council of Scientific and Industrial Research |  |
| 7 | Ph.D (with course work) | VISVA-BHARATI | 2014 |  |  |

9. Ph.D thesis title, Guide’s Name, Institute/Organization/University, Year of Award.

Title of the Ph.D. thesis:

“Transfer energetics of a series of homologous α-amino acids in some aquo-organic binary solvent mixtures”

Guide’s Name: Dr. Bijoy Krishna Dolui, Professor, Department of Chemistry, Visva-Bharati, Santiniketan, India.

Year of Award: **2014**

10. Work Experience:

|  |  |  |
| --- | --- | --- |
| Period | Position | Institution and Location |
| **May, 2005 – April, 2010** | Assistant Teacher | Sahapur High School, Birbhum, West Bengal, India |
| **December 2009 – April 2014** | Part time Research Fellow | Visva-Bharati, India |
| **29th April, 2010 – 2nd July, 2020** | Assistant Professor in Chemistry | Shibpur Dinobundhoo Institution (College), 412/1, G. T. Road (South), West Bengal, India |
| **3rd July, 2020 to till date** | Associate Professor of Chemistry | School of Sciences, Netaji Subhas Open University, DD-26, Salt Lake, Kolkata 700064, Regional Centre Kalyani, West Bengal, India. Lake, Sector-I, Kolkata 700064, Regional Centre Kalyani |

**11. Orientation/ Refresher Courses**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the Course / Summer School** | **Place** | **Duration** | **Sponsoring Agency** |
| Orientation Programme | UGC-Academic Staff College, North Bengal University | 23/07/2014 to 19/08/2014 | UGC |
| Refresher Course on Chemistry | UGC-HRDC, The University of Burdwan | 23/09/2015 to 13/10/2015 | UGC |

**12. Publications (List of papers published in SCI Journals, in year wise descending order).**

**Journal Publications**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SL No** | **Title with Page No.** | **Journal** | **ISSN/ ISBN** | **Whether Peer reviewed. Impact factor, if any** | **No. of Coauthors** | **Whether you are the main author** | **Impact Factor**: (2019) |
| **74** | Thermodynamics of Solute–Solvent Interactions and Solubility  of Some Amino Acids in Aqueous Sodium Iodide Solutions at T = 298.15 K, Arup Datta and Sanjay Roy, 2021, Vol. 95, Suppl. 1, pp. S62–S70. © Pleiades Publishing, Ltd., 2021. | Russian Journal of Physical Chemistry A | ISSN 0036-0244 | Peer Reviewed, & Scopus Indexed | **1** | **Corresponding author** | **0.719** |
| **73** | Solubilization of sodium 3-amino-2-hydroxyanthraquinone-1-sulphonate in sodium dodecyl sulfate micelles explains its  permeation in A549 human lung cancer cell, Somenath Banerjee, Sanjay Roy, Arup Datta, Palash Mondal,  Monali Mishra, Balaji Perumalsamy, Ramasamy Thirumurugan,  Dhanasekaran Dharumadurai, Saurabh Das, Partha Sarathi Guin, 2020;1–13, DOI: 10.1002/jccs.202000328 | J Chin Chem Soc. | ISSN: 2192-6549 | Peer Reviewed, & Scopus Indexed | **9** | **Middle Author** | **1.967 (2020)** |
| **72** | Solid Phase Synthesis of Biologically active Benzimidazole derivatives Catalysed by Methanesulphonic acid-SiO2 under Solvent free Condition, Arup Datta, Sanjay Roy: 2020, Vol. 36, No.(3):Pg. 537-543 | Oriental Journal of Chemistry | ISSN: 0970-020 X | Peer Reviewed & Indexed | **1** | **Corresponding Author** | **0.68** |
| **71** | Solubility Data of Glycine in Water and Justification of literature Results; Arup Datta, Aslam Hossain, Partha Sarathi Guin, **Sanjay Roy\*** Vol. 32, No. 7 (2020), 1525-1533; https://doi.org/10.14233/ajchem.2020.22626 | Asian Journal of Chemistry | ISSN: 0975-427X (Online)  ISSN: 0970-7077 (Print) | Peer Reviewed, & Scopus Indexed  UGC listed Journal  No-8774 | 3 | **Corresponding Author** | **0.31**  **H-index 31** |
| **70** | Electrolytic effects on solubility and Gibbs free energies of 1,4-dihydroxy-9,10-anthraquinone in aqueous methanol media via UV-Vis spectroscopic and theoretical studies, **2020**, Partha Sarathi Guin\*, **Sanjay Roy\*** Available online 28 February 2020, 137292, <https://doi.org/10.1016/j.cplett.2020.137292> | Chemical Physics Letters | **ISSN 0009-2614** | Peer Reviewed & Indexed | 7 | **Co-corresponding Author** | **2.029** |
| **69** | Solubility and peculiar thermodynamical behaviour of 2-aminobenzoic acid in aqueous binary solvent mixtures at 288.15 to 308.15 K, 302 (**2020**) 112566, Sk. Imran, Aslam Hossain, Kalachand Mahali, Partha Sarathi Guin, Arup Datta, **Sanjay Roy\*** | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 6 | **Corresponding Author** | **5.065** |
| **68** | Recent Progress and Approaches on Carbon-Free Energy from Water Splitting; Nano-Micro Lett. (**2019**) 11: 103, Aslam Hossain, K. Sakthipandi, A. K. M. Atique Ullah, **Sanjay Roy** | Nano Micro Letters |  | Peer Reviewed &Indexed in Web of Science & Scopus | 3 | **Middle**  **author** | **12.264** |
| **67** | Electrolytic effect on the solubility and solvation thermodynamics of L-serine and L-isoleucine in aqueous media: J. Chem. Eng. Data **2019**, 64, 10, 4286-4297, Saroj Chowdhury, Prasenjit Mandal, Aslam Hossain, Partha Sarathi Guin, **Sanjay Roy,\*** and Kalachand Mahali | Journal of Chemical & Engineering Data  (ACS publication) | ISSN 0021-9568 | Peer Reviewed &Indexed in Web of Science & Scopus | 5 | **Corresponding Author** | **2.369** |
| **66** | Solubility analysis of homologous series of amino acids and solvation energetics in  aqueous potassium sulfate solution: Heliyon, Volume 5, Issue 8, August **2019**, e02304Aslam Hossain, Kalachand Mahali, Bijoy Krishna Dolui, Partha Sarathi Guin, **Sanjay Roy\*** | Heliyon (Elsevier) | ISSN: 2405-8440 | Peer Reviewed &Indexed in Web of Science & Scopus | 4 | **Corresponding Author** | **1.650** |
| **65** | An overview on Monosodium glutamate: its direct and indirect effects: **2019**; 12(12): 6187-6192, Arup Datta, Aslam Hossain, **Sanjay Roy\*** | Research Journal of Pharmacy and Technology | ISSN: 0974-360X(Online), 0974-3618(Print) | Peer Reviewed &Indexed in Scopus | 2 | **Corresponding Author** | **H-index 14** |
| **64** | An overview of La2NiMnO6 double perovskites: synthesis, structure, properties and applications; J Sol-Gel Sci Technol (2019). <https://doi.org/10.1007/s10971-019-05054-8>, Aslam Hossain, A. K. M. Atique Ullah, Partha Sarathi Guin and **Sanjay Roy\*** | Journal of Sol-Gel Science and Technology | ISSN: 1573-4846 (Online)  ISSN: 0928-0707(Print) | Peer Reviewed &Indexed | 3 | **Corresponding Author** | **2.008** |
| **63** | An Overview on Biofuels and Their Advantages and Disadvantages; Asian J. Chem. / 2019 / 31(8) / pp 1851-1858,  Arup Datta, Aslam Hossain, **Sanjay Roy\*** | Asian Journal of Chemistry | ISSN: 0975-427X (Online)  ISSN: 0970-7077 (Print) | Peer Reviewed, & Scopus Indexed  UGC listed Journal  No-8774 | 2 | **Corresponding Author** | **0.31**  **H-index 31** |
| **62** | A review on the Comparative Study of Different Biofuels,  6(2019)665-678; Arup Datta, **Sanjay Roy** | IJRAR | E-ISSN 2348-1269, P- ISSN 2349-5138 | Peer Reviewed  [UGC Approved  J. No-43602, SL.No.2484] | 1 | **Second Author** | **--** |
| **61** | The external and internal influences on the tuning of the properties of  perovskites: An overview, 45(**2019**) 4152-4166, Aslam Hossaina, **Sanjay Roy**, K. Sakthipandi\* | Ceramics International | ISSN 0272-8842 | Peer Reviewed & Indexed  Impact Factor: 3.057  (2017) | 3 | **Middle Author** | **3.83** |
| **60** | Role of Solubility and Solvation Thermodynamics on the Stability of L-phenylalanine in Aqueous Methanol and Ethanol Solutions; 265(**2018**) 693-700; Sk. Imran, Aslam Hossain, Kalachand Mahali, Amit Saha Roy, Partha Sarathi Guin, **Sanjay Roy\*** | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 6 | **Corresponding Author** | **5.065** |
| **59** | Solubility and Thermodynamics of Solute−Solvent Interactions of  Some Amino Acids in Aqueous Sodium Bromide and Potassium  Bromide Solutions; 63(**2018)**534-541 Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui, and **Sanjay Roy\*** | Journal of Chemical & Engineering Data  (ACS publication) | ISSN 0021-9568 | Peer Reviewed & Indexed  Impact Factor: 2.196  (2017) | 4 | **Corresponding Author** | **2.369** |
| **58** | Solubility and transfer solvation thermodynamics of L-isoleucine and  L-serine in water to aqueous solution of Na2SO4 and K2SO4 from 288.15 K  to 303.15 K; 706(**2018**)432-439; S. Chowdhury, P. Mandal, Md. Sarikul Islam, A. Hossain, P.S. Guin,  **Sanjay Roy\*,** Kalachand Mahali\* | Chemical Physics Letters | **ISSN 0009-2614** | Peer Reviewed & Indexed  Impact Factor: 1.686 (2017) | 7 | **Co-corresponding Author** | **2.029** |
| **57** | Effect of Electrolytes on the Solubility and Solution thermodynamics of 1-Amino-4-Hydroxy-9,10-Anthraquinone, an Analogue of Anthracycline Anticancer Drugs, in Aqueous Ethanol Media Using Theoretical and UV-Vis Spectroscopic Study; 252 (**2018**) 151-157; Sk. Imran, Aslam Hossain Sujay Parui, Partha Sarathi Sengupta, **Sanjay Roy\*,** Partha Sarathi Guin | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 6 | **Co-corresponding Author** | **5.065** |
| **56** | Correction to “amino acid solubility under the influence of NaCl  at 298.15 K”; 252 (**2018**) 144, **Sanjay Roy** , Partha Sarathi Guin , Kalachand Mahali, Bijoy Krishna Dolui | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 4 | **First Author** | **5.065** |
| **55** | Solubility and solute-solvent interactions of DL-alanine and DL-serine in  aqueous potassium nitrate solutions; 249 (**2018**)  1133–1137; Aslam Hossain, **Sanjay Roy\*** | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **2** | **Corresponding Author** | **5.065** |
| **54** | Electrochemical and UV–Vis spectroscopic studies on the interaction of sodium 1,4-dihydroxy-9,10-anthrauinone-2-sulphonate with cetyltrimethylammonium bromide micelles; 694(**2018**)7-13; **Sanjay Roy**, Partha Sarathi Sengupta, Partha Sarathi Guin | Chemical Physics Letters | ISSN 0009-2614 | Peer Reviewed & Indexed  Impact Factor: 1.686  (2017) | **3** | **First Author** | **2.029** |
| **53** | **Review**  An overview of double perovskites A2B'B"O6with small ions at A site:  Synthesis, structure and magnetic properties; 740(**2018**) 414-427;Aslam Hossain, Prasanta Bandyopadhyay, **Sanjay Roy\*** | Journal of Alloys and Compounds | ISSN 0925-8388 | Peer Reviewed & Indexed  Impact Factor: 3.779  (2017) | **3** | **Corresponding Author** | **4.650** |
| **52** | Evaluation and correlation of solubility and solvation energetics of DL-phenylalanine and DL-serine in water and aqueous ethylene  glycol solutions; 249(**2018**) 659–665; Srabani Ghosh, Samiran Mondal, **Sanjay Roy\*,** Soumen Saha, Dushila Subba , Bijoy Krishna Dolui\* | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 6 | **Co-Corresponding Author** | **5.065** |
| **51** | Solvation Thermodynamics of DL-Phenylalanine  in Aqueous NaNO3 Solution at 298.15 K; 92(**2018**)734-738; **Sanjay Roy**, Samiran Mondal, and Bijoy Krishna Dolui | Russian Journal of Physical Chemistry A | **ISSN 0036-0244** | Peer Reviewed & Indexed  Impact Factor: 0.549  (2017) | **3** | First Author | **0.719** |
| **50** | Evaluation and correlation of Solubility and Solvation Thermodynamics of Glycine, DL-alanine and DL-valine in Aqueous Sodiumsulphate Solutions at two different temperatures; 234(**2017**)124-128; **Sanjay Roy\*,** Partha Sarathi Guin, Kalachand Mahali, Aslam Hossain, Bijoy Krishna Dolui | Journal of Molecular Liquids | ISSN 0167-7322 | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 5 | **Corresponding Author**  &First Author | **5.065** |
| **49** | Model studies on the interactions of a Cu(II)-quinone complex with surfactant micelles and DNA explore its induction of apoptosis in human MDA-MB-231 breast adenocarcinoma cells; 70(**2017**)2128-2147; **Sanjay Roy**, Gayathri Loganathan, Dhanasekaran Dharumadurai, Mohammad A. Akbarsha, Partha Sarathi Guin | Journal of Coordination Chemistry | **ISSN 0095-8972** | Peer Reviewed & Indexed  Impact Factor: 1.703  (2017) | **5** | First Author | **1.410** |
| **48** | Recent Developed Different Structural Nanomaterials and Their Performance for Supercapacitor Application; 9 (**2017**) 300–313, Aslam Hossain, Prasanta Bandyopadhyay, Partha Sarathi Guin, Sa**njay Roy\*** | Applied Material Today | **ISSN 2352-9407** | Peer Reviewed & Indexed  Cite factor **9.90 (2017)** | **4** | **Corresponding Author** | **8.352** |
| **47** | Effects of Thermodynamics on the Solvation of Amino Acids in the Pure and Binary Mixtures of Solutions: A Review; 232(2017)332-350; Aslam Hossain, **Sanjay Roy**, Bijoy Krishna Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | 3 | **Middle Author** | **5.065** |
| **46** | A Piece of Writing: Future Prospect of Biofuels; 8(2017) 49-52; **Sanjay Roy** | Journal of Biofuels  [Indianjournals.com] | **ISSN**  **0976-3015** | Peer Reviewed & Indexed  (UGC-APPROVED  ICI index, Sr. No-14819 ) | **Sole Author** | **Sole Author** | **---** |
| **45** | A Soluble Cu(II) Complex of Sodium 1,4-Dihydroxy-9,10-Anthraquinone-2-Sulphonate Electrocatalyzes Water Oxidation with a Large Turn over Frequency; 77(2017)39-60; **Sanjay Roy**, Partha Sarathi Guin | ECS Transactions  The Electrochemical Society | **ISSN 1938-6737** | Peer Reviewed & Indexed  H- INDEX -41 | **2** | **First Author** | **0.46** |
| **44** | Solubility and transfer Gibbs free energetics of glycine, DL-alanine, DL-nor-valine and DL-serine in aqueous sodium fluoride and potassium fluoride solutions at 298.15 K; 56A (2017) 399-406; **Sanjay Roy**\*, Partha Sarathi Guin, Kalachand Mahali & Bijoy Krishna Dolui | Indian Journal of Chemistry | **ISSN: 0376-4710** | Peer Reviewed & Indexed  Impact Factor: 0.566  (2017) | **4** | **Co-Corresponding Author**  &First Author | **0.489** |
| **43** | Solubility and solute–solvent interaction phenomenon of succinic acid in  aqueous ethanol mixtures; 229(2017)172-177; Kalachand Mahali, Partha Sarathi Guin, **Sanjay Roy**\* &, Bijoy Krishna Dolui\* | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **4** | **Co-Corresponding Author** | **5.065** |
| **42** | Solvation thermodynamics of L-cystine, L-tyrosine and L-leucine in aqueous-electrolyte; 91(2017)2397–2403; **Sanjay Roy**\*, Partha Sarathi Guin, Kalachand Mahali & Bijoy Krishna Dolui | Russian Journal of Physical Chemistry A | **ISSN 0036-0244** | Peer Reviewed & Indexed  Impact Factor: 0.549  (2017) | **4** | **Corresponding Author**  &First Author | **0.719** |
| **41** | The Importance of Advance Biomaterials in Modern Technology: A Review; 10(4)(2017)1-13; Aslam Hossain, **Sanjay Roy**, Partha Sarathi Guin | Asian J. Research Chem. | **ISSN 0974-4169** | Peer Reviewed & Indexed  ICI index | **3** | **Middle Author** | **--** |
| **40** | Comparative Study on Solubility of Glycine, DL-alanine, DL-nor-valine and DL-serine in Aqueous Solutions of NaF and KF at 298.15 K; 219(2016) 815–819; **Sanjay Roy**, Kalachand Mahali & Bijoy Krishna Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **3** | **Co-Corresponding and First Author** | **5.065** |
| **39** | Role of Electrolytes in the Solubility of L-proline and Its Transfer Free Energetics; 223(2017) 927–933; **Sanjay Roy\*,** Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **4** | **Corresponding Author**  &First Author | **5.065** |
| **38** | Solubility of glycine and DL-nor-valine in aqueous solutions of NaNO3 and KNO3 and measurements of transfer thermodynamics;222(**2016**)313-319; **Sanjay Roy**, Partha Sarathi Guin, Samiran Mondal, Srabani Ghosh, Bijoy Krishna Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **5** | **Corresponding Author**  &First Author | **5.065** |
| **37** | Thermodynamics of DL-α-Amino butyric acid Induced Solvation Mechanism in Aqueous KCl Solutions at 288.15-308.15 K; 90(**2016**) 1798–1805; S. Mondal , S. Ghosh , A. Hossain , K. Mahali**, Sanjay Roy**\*, & B. K. Dolui | Russian Journal of Physical Chemistry A | **ISSN 0036-0244** | Peer Reviewed & Indexed  Impact Factor: 0.549  (2017) | **6** | **Co-Corresponding Author** | **0.719** |
| **36** | Solubility and Chemical Thermodynamics of DL-Alanine and DL-Serine in Aqueous NaCl and KCl Solutions;61(2016)132-141; **Sanjay Roy**, Aslam Hossain, Bijoy Krishna Dolui | Journal of Chemical & Engineering Data  (ACS publication) | **ISSN 0021-9568** | Peer Reviewed & Indexed  Impact Factor: 2.196  (2017) | 3 | First Author | **2.369** |
| **35** | Studies on the interaction of 2-amino-3-hydroxy-anthraquinone with surfactant micelles reveal its nucleation in human MDA-MB-231 breast adinocarcinoma cells; 6(2016) 28200–28212; Amit Das, **Sanjay Roy**, Palash Mondal, Arup Datta, Kalachand Mahali, Gayathri Loganathan, Dhanasekaran Dharumadurai, Partha Sarathi Sengupta, Mohammad Abdulkadher Akbarsha and Partha Sarathi Guin | RSC Advances | **ISSN 2046-2069** | Peer Reviewed & Indexed  Impact Factor: 2.936  (2017) | **11** | **Second Author** | **3.119** |
| **34** | Amino acid solubility under the influence of NaCl at 298.15 K; 218(2016)316–318; **Sanjay Roy**, Partha Sarathi Guin , Kalachand Mahali, Bijoy Krishna Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **4** | First Author | **5.065** |
| **33** | Spectroscopic, computational and electrochemical studies on 2-(4-nitrophenyl)-1H-benzo[d]imidazole and its interaction with cationic surfactant cetyltrimethylammonium bromide; 219(2016) 1058-1064; Arup Datta , **Sanjay Roy**, Palash Mondal, Partha Sarathi Guin | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **4** | Second Author | **5.065** |
| **32** | Chemical Transfer Energetics of a Series of Homologous α- Amino Acids in Quasi-Aprotic 2-Methoxyethanol-Water Mixtures; 45 (2016) 574-590; **Sanjay Roy**, Kalachand Mahali, Bijoy K. Dolui | Journal of Solution Chemistry | **ISSN 0095-9782** | Peer Reviewed & Indexed  Impact Factor: 1.401  (2017) | **3** | First Author | **1.273** |
| **31** | The chemical stability of L-isoleucine, L-threonine and L-serine in aqueous solutions of KCl at 298.15 K; 90(2016) 1175–1180; **Sanjay Roy** & Bijoy Krishna Dolui | Russian Journal of Physical Chemistry A | **ISSN 0036-0244** | Peer Reviewed & Indexed  Impact Factor: 0.549  (2017) | **2** | First Author | **0.719** |
| **30** | Preliminary Review on Solvation Chemistry in Aqueous Solvents: Application to Amino Acids. 11(2016)103-122; **Sanjay Roy** & Bijoy Krishna Dolui | Phys Chem Indian Journal | **ISSN 0974-7524** | Peer Reviewed (UGC APPROVED: J. NO. 48319) | **2** | **Corresponding Author**  &First Author | **--** |
| **29** | A Co(II) complex of a vitamer of vitamin B6 acts as a sensor for Hg2+ and pH in aqueous media; 40 (2016) 6396—6404; Nilam Sing, **Sanjay Roy**, Partha Sarathi Guin, Kalachand Mahali, Prakash Majee, Sudip Kumar Mondal, Partha Mahata, Partha Sarathi Sengupta and Palash Mondal | New Journal of Chemistry | **ISSN**  **1144-0546** | Peer Reviewed & Indexed  Impact Factor: 3.201  (2017) | **9** | Second Author | **3.288** |
| **28** | Study of the Solubility and Transfer Thermodynamics of D,L-Phenylalanine in Aqueous Sodium Chloride and D,L-Serine in Aqueous Sodium Nitrate Solutions; 45(2016) 1755-1772; Samiran Mondal, **Sanjay Roy\*,** Srabani Ghosh,Kalachand Mahali, Bijoy Krishna Dolui | Journal of Solution Chemistry | **ISSN 0095-9782** | Peer Reviewed & Indexed  Impact Factor: 1.401  (2017) | **5** | **Co-Corresponding Author** | **1.273** |
| **27** | Design of a mononuclear copper(II)-phenanthroline complex: Catechol oxidation, DNA cleavage and antitumor properties;106(2016) 106-114; Dhananjay Dey, Subrata Das , Hare Ram Yadav, Anandan Ranjani , Loganathan Gyathri , Sanjay Roy , Partha Sarathi Guin , Dharumadurai Dhanasekaran, Angshuman Roy Choudhury , Mohammad Abdulkader Akbarsha , Bhaskar Biswas | Polyhedron | **ISSN 0277-5387** | Peer Reviewed & Indexed  Impact Factor: 2.067  (2017) | **11** | Middle Author | **2.343** |
| **26** | Chemistry in our daily life: Preliminary information; 2(3) (2016) 361-366; Sanjay Roy | International Journal of Home Science | **ISSN: 2395-7476** | Peer Reviewed & Indexed | **1** | Sole Author | **--** |
| **25** | Spectroscopic, computational and electrochemical studies on the formation of the copper complex of 1-amino-4-hydroxy-9,10-anthraquinone and effect of it on superoxide formation by NADH; 44(2015) 5428–5440; Sanjay Roy, Palash Mondal, Partha Sarathi Sengupta, Debasis Dhak, Ramesh Chandra Santra, Saurabh Das and Partha Sarathi Guin | Dalton Transaction | **ISSN: 1477-9226** | Peer Reviewed & Indexed  Impact Factor: 4.099  (2017) | **7** | First Author | **4.174** |
| **24** | Solvation of 1-Amino-4-Hydroxy-9, 10-Anthraquinone Governs Its Electrochemical Behavior in Non-Aqueous and Aqueous Media: A Cyclic Voltammetry Study;162(2015) H124-H131; Sanjay Roy, Partha Sarathi Guin | Journal of The Electrochemical Society | **ISSN 0013-4651** | Peer Reviewed & Indexed  Impact Factor: 3.48  (2017) | **2** | First Author | **3.662** |
| **23** | Investigation on the interaction of 1-amino-4-hydroxy-9, 10-anthraquinone with calf thymus DNA and CTAB micelles;211(2015) 846-853; Sanjay Roy, Partha Sarathi Guin | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **2** | First Author | **5.065** |
| **22** | 1-Amino-4-hydroxy-9,10-anthraquinone–An analogue of anthracycline anticancer drugs, interacts with DNA and induces apoptosis in human MDA-MB-231 breast adinocarcinomacells:Evaluation of structure–activity relationship using computational, spectroscopic and biochemical studies.; 4(2015)312-323; Palash Mondal1, Sanjay Roy1, Gayathri Loganathan, Bitapi Mandal, Dhanasekaran Dharumadurai, Mohammad A. Akbarsha, Partha Sarathi Sengupta, Shouvik Chattopadhyay, Partha Sarathi Guin | Biochemistry and Biophysics Reports | **ISSN 2405-5808** | Peer Reviewed & Indexed  Cite Score: 0.93 | **9** | First Author | 1.58 |
| **21** | Physico-Chemical Studies of DL-Alanine in Aqueous Sodium Nitrate Solution; 85(2015) 162-167; Sanjay Roy, K. Mahali, S. Mondal, R. P. Mondal, B. K. Dolui | Russian Journal of General Chemistry | **ISSN 1070-3632** | Peer Reviewed & Indexed  Impact Factor: 0.55  (2017) | **5** | First Author | **0.716** |
| **20** | Solubility and solvation thermodynamics of DL-nor- valine in aqueous solutions of NaCl and KCl;211(2015) 294-300; Sanjay Roy, Partha Sarathi Guin, Bijoy K. Dolui | Journal of Molecular Liquids | **ISSN 0167-7322** | Peer Reviewed & Indexed  Impact Factor: 4.513  (2017) | **3** | First Author | **5.065** |
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**Books Publications**

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| SL. No. | Title | Author’s Name | Publisher | Year of Publication | **Whether you are the main author** |
| 1 | **Solvation of Some α-amino Acids in Aquo organic Binary Solvents**  ISBN 13: 978-3-659-95921-9;  ISBN 10:3659959219; EAN:9783659959219 | **Sanjay Roy** | LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße 28, D-66111 Saarbrücken, Germany | 2016 | Sole Author |
| 2 | **Chemistry in Everyday’s life**  ISBN-13:978-3-330-01994-2;  ISBN-10:3330019948;  EAN: 9783330019942 | **Sanjay Roy**, Partha Sarathi Guin | LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße 28, D-66111 Saarbrücken, Germany | 2016 | First Author |
| 3 | **Chemistry of Water: Cradle of Life**  ISBN-13: 978-3330058293; ISBN-10: 3330058293;  EAN: 9783330058293 | **Dr. Sanjay Roy**, Dr. Partha Sarathi Guin and Aslam Hossain | LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße 28, D-66111 Saarbrücken, Germany | 2017 | First Author |
| 4 | Higher Secondary Chemistry Books Volume I (Class XI) | Dr. Partha Sarathi Guin, **Dr. Sanjay Roy**, Sandipan Mondal, Md. Jahir Middye, Dr. Koninika Karmakar | Board of Rabindra Mukta Vidhyalaya, Government of West Bengal. | 2018 | 2ND Author |
| 5 | Higher Secondary Chemistry Books Volume II (Class XII) | Dr. Partha Sarathi Guin, **Dr. Sanjay Roy**, Sandipan Mondal, Md. Jahir Middye, Dr. Koninika Karmakar | Board of Rabindra Mukta Vidhyalaya, Government of West Bengal. | 2018 | 2ND Author |

**Papers presented in Conferences, Seminars, Workshops, Symposia**

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| **Sl. No** | **Title of the paper presented** | **Title of Conference/ Seminar** | **Organized by** | **Whether International/ National/State/ Regional/College or University level** |
| 1. | “Quaternization of poly (4-vinyl pyridine) for pre-concentration and separation of Cr (vi) from environmental samples” | UGC-sponsored national seminar on ‘Water pollution and its recent challenges’ | Department of chemistry, S.K.M university, Dumka, India | National |
| 2. | “Chemical transfer energetics of a series of Homologous α-amino acids in non-aqueous mixture of protic ethylene glycol and dipolar aprotic N,N-dimethylformamide” | Chemical Research society of India, Eastern Zonal meeting, 2011 and Celebration of the International year of Chemistry, 2011 | Department of Chemistry ,NBU | National |
| 3. | “Chemical transfer energetic of a series of homologous α-amino acids in 2-methoxyethanol +water mixtures” | IXth CRSI (KOLKATA CHAPTER) symposium on Chemical research in the first decade of 21st century(2011), | Dept. of chemistry Visva-Bharati, Santiniketan. | National |
| 4. | “Studies of electrochemical behavior of 1-amino-4-hydroxy-9, 10-anthraquinone in non-aqueous and aqueous media: By cyclic voltammetry” | National Conference on Chemistry for Better tomorrow current Trends and Opportunity” CBT-2014 | Sidho Kanho Birsha University | National |
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